

PATLITE[®] Interface Converter Installation Manual [Model : PHE-3FB3□-RYG]

Thank you very much for purchasing our PATLITE products. Read this instruction manual carefully prior to use. Keep this instruction manual in a safe place.

- This product requires installation, wiring and other setup work. Always have installation work performed by a professional contractor.
- Prior to installation, read this manual thoroughly before using this product to ensure correct use.
- Reread this manual when maintenance, inspection, repair or other work is required. If there are any questions concerning this product, refer to the contact information at the end of this document and contact your nearest PATLITE Sales Representative.
- For more details on installation, settings or wiring, download the **Complete Instruction Manual from our homepage.**

Homepage address www.patlite.com

- To the Contractor
- Read this manual carefully prior to installation.
- If there are any questions concerning this product, refer to the contact information at the end of this document and contact your nearest PATLITE Sales Representative.

-Safety Precautions-

To prevent from personal injury, injury to others or property damage, the following precautions must be observed.

- ◆ The following symbols classifies the precautions into the following two categories depending on the degree of injury or damage caused by the failure to follow them:

Warning Indicates an imminently dangerous condition: failure to follow the instructions may lead to death or serious injury.

- Request the installation and wiring to be accompanied by a professional contractor. If installation is done improperly, it may result in fire, electric shock, falling, or malfunction.

Caution Indicates a potentially dangerous condition: failure to follow the instructions may lead to slight injury or property damage.

- Use a soft cloth dampened with water to clean the product. (Do not use thinner, benzene, gasoline or oil.)

- ◆ The following symbols used in this manual are explained below:

- ⊘ This symbol indicates "Prohibited", which should not be carried out by all means.
- ⚠ This symbol indicates "Enforced", which should be observed and carried out by all means.

1 Read this First

Warning

- Do not modify or disassemble this product. Failure to follow these instructions could result in fire or electric shock.
- Do not use this product when there is condensation. Failure to follow these instructions could result in fire or electric shock.
- Do not leave or use this product while the LED unit are detached or broken. Doing so may result in electric shock.
- Do not touch the electric socket with wet hands. It may result in electric shock.
- Do not allow the voltage to exceed the specified voltage tolerance. Exceeding the voltage ratings beyond the rated voltage will cause internal circuitry damage. Moreover, possible fire may also occur.
- Do not disconnect and re-insert the DC plug while the AC adaptor is plugged in. Possible electric shock and damage may occur.

- Always use a power supply within the operating voltage range. Failure to follow this instruction could result in fire or product failure.
- In the unlikely event that there is an abnormal situation such as smoke or odors emitting from the product, immediately cut the power supplied to the product. Continued use of the product in this condition could result in fire or electric shock.
- When plugging into the power receptacle, be sure to check there is no dust accumulation on the plug, and insert into the power receptacle completely. By allowing dust to adhere, it can be the result of fire or failure from short-circuiting.
- Since dust can accumulate after a long time, and with moisture, can cause the dust to become conductive, in order to prevent the phenomenon of ignition from dust accumulation, it is best to periodically wipe the transformer and socket terminal with a damp cloth. By allowing dust to adhere to the power receptacle, it can be the result of fire or failure from short-circuiting.
- When an unusual odor, sound or smoke comes out of the product, immediately disconnect the power, then contact your nearest PATLITE Sales Representative.
- In order to prevent serious effects on human life and property etc. caused by malfunction of this product, ensure sufficient safety such as using in combination with other equipment.

Caution

- Do not expose it to high temperatures, such as near a fire and do not use it in humid places. Moreover, do not use this machine in locations where corrosive or combustible gas is present.
- If foreign substances, such as water, medicine; or metals, such as copper, low carbon steel wire, fall into this product, please do not use it. Possible cause of failure may occur.
- Do not bend the power supply cables or signal wires recklessly. Failure to comply will result in possible malfunction due to disconnection.
- Do not install or run wiring near, or where equipment (such as solenoids, etc.) generate strong electric or magnetic fields, or near any power lines. Failure to comply may result in malfunction due to inductive noise.
- Do not use excessive force to set up the switches. Possible damage or malfunction may occur.
- Do not adjust switches with a sharp object. Possible damage to switches may cause it to be impossible to operate or cause partial movement of the contacts.
- Please place this product on a level surface, such as a desk etc.
- When installing in high places, such as a top shelf, fix the Main Unit so it cannot move or fall.

It is not the responsibility of Patlite for any failure or damage from natural disasters, mishandling and disassembly, or modifications that deviate from the cautions and warnings provided in this manual. It is recommended to avoid the use of this product for purposes other than described in this manual.

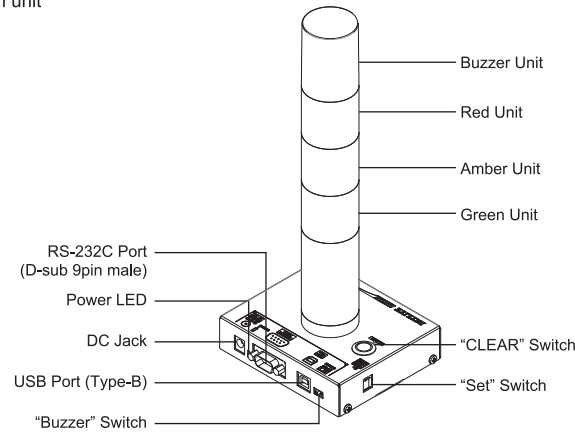
2 Model Number Configuration

PHE - 3FB3□ - RYG

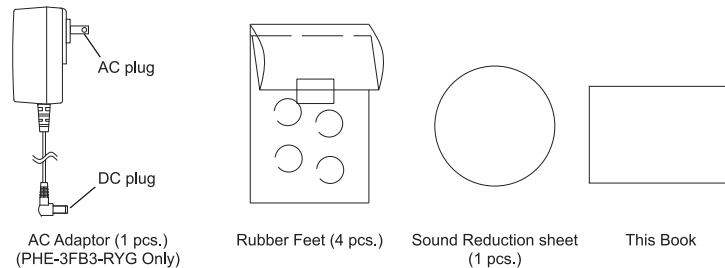
- AC Adaptor
- None : AC Adaptor included
- N : AC Adaptor not included

3 Part Names

Main unit



Accessories



Note

- Please purchase an RS-232C and USB cable separately, since they are not included.

4 About AC Adaptor

Warning

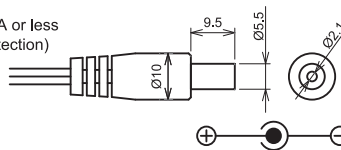
- When using an AC adaptor other than our AC adaptor (ADP-001), be sure to use the AC adaptor that conforms to the recommended specifications. Using an AC adaptor that does not meet the recommended specifications could result in fire or product failure.
- Be sure to use the AC adaptor equipped with the overcurrent protection. Using an AC adaptor that does not have an overcurrent protection function could result in fire or product failure.

Use the AC adaptor included in the product. To order an AC adaptor separately, purchase our AC adaptor (ADP-001).

When using N model (AC Adaptor not included) and AC adaptor other than ADP-001, use AC adaptor with the following specifications.

[Recommended AC adaptor specification]
DC Secondary Output

- Voltage : 24V DC ±5%
- Current : 0.75 A or more and 1A or less (With overcurrent protection)
- Plug Length : 9.5 mm or more
- Plug Connector Outer Diameter : 10mm dia or less
- Plug Connector Inner Diameter : 5.5mm dia.
- Plug Connector Inner Diameter : 2.1mm dia.

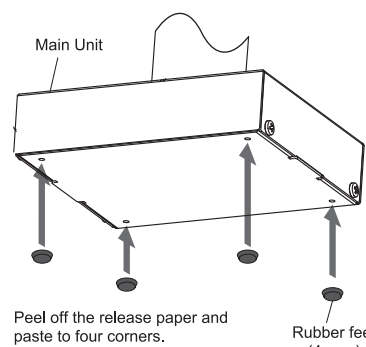


5 Installation method

Prior to the installation of this product, attach the enclosed rubber feet (4 pcs.) to the bottom surface of this product.

Caution

- This product is designed for indoor use. Use this product in a location where it is not exposed to rain and water. Exposure to rain and water may result in failure and electric shock.
- Install this product where the surface is stable and level. If this product is installed in an unstable location or on an incline, the product may fall, resulting in damage.



6 RS-232C Port Wiring

By connecting the RS-232C (male) of this product and RS-232C port of a PC with a D-sub 9 pin female-to-female type cable with straight wire connection, this product can be controlled via RS-232C transmission.

- * The RS-232C cable is not included. Please purchase it separately.

Caution

- Do not bundle the RS-232C cable with power supply cords when being used. Failure to comply may result in malfunction from power line noise.
- Do not connect the RS-232C cables simultaneously. Failure to comply may result in malfunction.
- Please use the RS-232C cable and USB cable one - to - one with the port of the connected equipment (PC etc.). When used in conjunction with other equipment, malfunction may occur, and the main unit and connected equipment may be damaged.

7 USB Port Wiring

This product can be controlled via USB transmission by connecting a USB (Type B) cable from the Main Unit to the USB port of a PC.

Since this product conforms to USB Bus Power, it can be used without using an AC Adaptor.

- * The USB cable is not included. Please purchase it separately.
- * It is recommended to use a USB cable with a length of 2m or less. A cable longer than 2m may cause unstable operation due to noise from the surrounding environment.
- * The USB bus power operation reduces the brightness of Signal Tower.

Note

- This product requires installation of a specialized driver for the PC before being connected to a PC via the USB. Go to our website to download the installer.

Caution

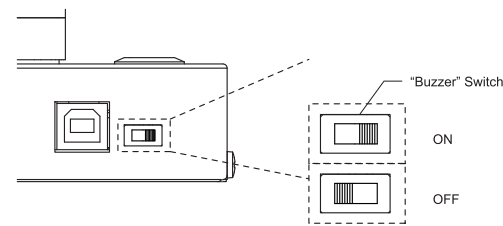
- Do not connect the USB cables simultaneously. Failure to comply may result in malfunction.
- Do not insert or pull out the USB cable while the power supply is turned on.
- Do not bundle the USB cables with power supply cords when being used. Failure to comply may result in malfunction from power line noise.
- Depending on the feeding power capability of the Main Unit or the USB port of the personal computer, operation may become unstable. Use an AC Adaptor if this condition occurs.
- Do not use devices other than the connected device (PC etc) with the USB cable. If used in combination with other equipment, it may cause malfunctions, resulting in unstable operation.

8 Operating Method

Turn on the power supply after confirming that all the "Set" switches are off for "Normal Operation" mode. The specification contents, protocols, and transmission commands are described in the instruction manual. Use this product after downloading the instruction manual from our website and reading it thoroughly. It is necessary to create your own software, since the control software for this product is not included. The specialized driver needs to be installed if this product is to be control via USB.

9 Buzzer Switch

It is possible to adjust ON or OFF by moving the buzzer switch left and right.



Note

- If it is set to OFF, the buzzer not sound.

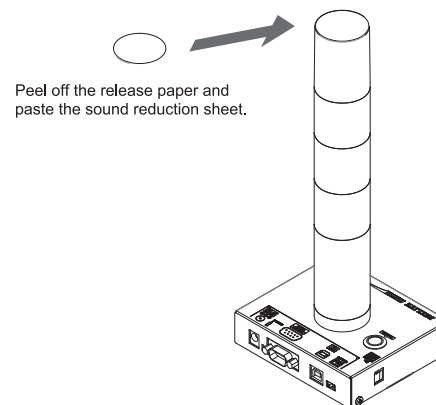
10 Volume adjustment

To adjust the volume, use the sound reduction sheet or set the dip switch inside the buzzer unit.

It is written about the installation and removal of the buzzer unit and the LED unit in the instruction manual posted on our website.

When using the attached sound reduction sheet

Please paste the sound reduction sheet on the buzzer unit upper part.



When using the dip switch in the buzzer unit

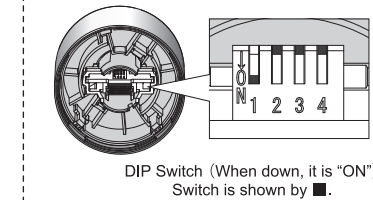
To sound reduction, please turn on DIP switches 1 and 3 as shown below.

Caution

- Do not use excessive force to set up the switches. Possible damage or malfunction may occur.
- Do not adjust switches with a sharp object. Possible damage to switches may cause it to be impossible to operate or cause partial movement of the contacts.

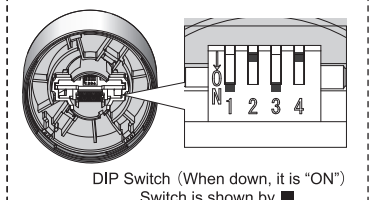
Buzzer Unit Underside Do not set the dip switch of the buzzer unit except for the figure below.

Normal mode (product shipped)



DIP Switch	1	2	3	4
	ON	OFF	OFF	OFF

Sound reduction mode

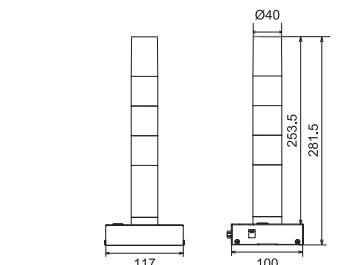


DIP Switch	1	2	3	4
	ON	OFF	ON	OFF

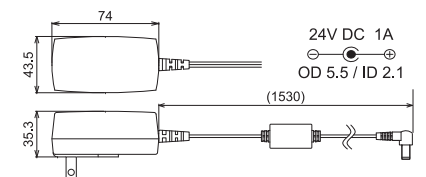
11 Outer Dimensional Drawing

Main unit

(Unit: mm)



AC Adaptor



12 Conformity requirements

This product has been tested and found to comply with the limits for a Class A device.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This product must not be used in residential areas.

Conformity requirements for FCC Part 15 Subpart B:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules and RSS-Gen of IC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

- The images in this manual may vary in comparison to the actual product and are only for the purpose of illustration.
- Specifications may change without notice due to continual product improvement.
- Despite the cautions and warnings provided in this manual, it is not the responsibility of PATLITE for any failure or damage occurred from mishandling.
- PATLITE, the PATLITE logo are either registered trademarks or trademarks of PATLITE Corporation in JAPAN and/or other countries.

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